

REPORT ON BOILERS.

No. 49090

Received at London Office

24 APR 1929

of writing Report

192

When handed in at Local Office

20

192

Port of

Glasgow

o. in Book.

Survey held at

Dumbarton

Date, First Survey

24.5.28

Last Survey

17 April 1929.

(Number of Visits

516)

Gross

5020

Tons

Net

3051

ster

Built at

Dumbarton

By whom built

W. Denny & Bros. Ltd.

Yard No.

1217

When built

1929

ines made at

Dumbarton

By whom made

W. Denny & Bros. Ltd.

Engine No.

969

When made

1929

lers made at

"

By whom made

"

"

"

Boiler No.

969

When made

1929

imal Horse Power

76

Owners

Australind S. S. Co. Ltd.

Port belonging to

London.

MULTITUBULAR BOILERS - MAIN, AUXILIARY, OR DONKEY.

ufacturers of Steel

Jas. Dunlop & Co. Ltd.

(Letter for Record

S.

al Heating Surface of Boilers

1135 sq. ft.

Is forced draught fitted

no

Coal or Oil fired

oil

and Description of Boilers

1 - Multitubular

Working Pressure

125

sted by hydraulic pressure to

238

Date of test

18-1-29

No. of Certificate

18171

Can each boiler be worked separately

yes

ea of Firegrate in each Boiler

No. and Description of safety valves to each boiler

2 - S.L.W.L.

ea of each set of valves per boiler

per Rule 12

as fitted 7.94

Pressure to which they are adjusted

130

Are they fitted with easing gear

yes

case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

yes

allest distance between boilers or uptakes and bunkers or woodwork

Well clear

Is oil fuel carried in the double bottom under boilers

no

allest distance between shell of boiler and tank top plating

Well clear

Is the bottom of the boiler insulated

no

argest internal dia. of boilers

11'-0"

Length

10'-1 1/2"

Shell plates: Material

S

Tensile strength

28-32

ickness

2 1/32"

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

end J.R.

g. seams

T.R.D.B.S.

Diameter of rivet holes in

circ. seams 7/8"

long. seams 3/4"

Pitch of rivets

2-998

centage of strength of circ. end seams

plate 70.83

ribs 50.15

plate 86.51

Percentage of strength of circ. intermediate seam

plate

ribs

centage of strength of longitudinal joint

ribs 93

combined 91.6

Working pressure of shell by Rules

127

ickness of butt straps

outer 1/2"

inner 5/8"

No. and Description of Furnaces in each Boiler

2 - Morrison

terial

Tensile strength

26-30

Smallest outside diameter

36.4"

ngth of plain part

top

bottom

Thickness of plates

top 7/16"

bottom 7/16"

Description of longitudinal joint

weld

mensions of stiffening rings on furnace or c.c. bottom

none

Working pressure of furnace by Rules

163

d plates in steam space: Material

S

Tensile strength

26-30

Thickness

13/16"

Pitch of stays

16 1/4" x 14 5/8"

w are stays secured

J.N.

Working pressure by Rules

125

be plates: Material

front S

back S

Tensile strength

26-30

Thickness

13/16"

23/32"

an pitch of stay tubes in nests

10 1/4"

Pitch across wide water spaces

14"

Working pressure

front 232

back 173

orders to combustion chamber tops: Material

S

Tensile strength

28-32

Depth and thickness of girder

centre

7" x 1"

Length as per Rule

28 1/2"

Distance apart

8 1/8"

No. and pitch of stays

each

Working pressure by Rules

129

Combustion chamber plates: Material

S

asile strength

26-30

Thickness: Sides

17/32"

Back

9/16"

Top

17/32"

Bottom

17/32"

ch of stays to ditto: Sides

9 1/2" x 7 1/8"

Back

8 3/4" x 9 1/2"

Top

9" x 8 1/8"

Are stays fitted with nuts or riveted over

nuts

orking pressure by Rules

130

Front plate at bottom: Material

S

Tensile strength

26-30

ickness

13/16"

Lower back plate: Material

S

Tensile strength

26-30

Thickness

1 1/16"

ch of stays at wide water space

14" x 8 3/4"

Are stays fitted with nuts or riveted over

nuts

orking Pressure

Main stays: Material

S

Tensile strength

28-32

ing meter

At body of stay

2"

Over threads

No. of threads per inch

9

Area supported by each stay

237

orking pressure by Rules

125

Screw stays: Material

S

Tensile strength

26-30

ing meter

At turned off part

1 3/8"

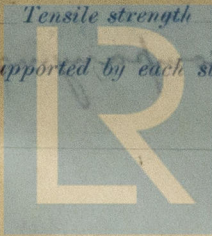
Over threads

No. of threads per inch

9

Area supported by each stay

83 sq. in.



Lloyd's Register Foundation

WS-0090

Working pressure by Rules 126 Are the stays drilled at the outer ends 100 Margin stays: Diameter { At turned off part, 1 5/8" or Over threads 1 5/8" ✓
No. of threads per inch 9 Area supported by each stay 103" Working pressure by Rules 149
Tubes: Material Iron External diameter { Plain 3" Thickness 5/16" No. of threads per inch 9
Pitch of tubes 4 1/8" x 4 1/8" Working pressure by Rules 140 Manhole compensation: Size of opening 36 - 7/8"
shell plate 17" x 13" Section of compensating ring 33 7/8" x 33 7/8" x 3 1/2" No. of rivets and diameter of rivet holes 36 - 7/8"
Outer row rivet pitch at ends 6 1/4" Depth of flange if manhole flanged 10 Steam Dome: Material none
Tensile strength 7121 Thickness of shell Description of longitudinal joint
Diameter of rivet holes Pitch of rivets Percentage of strength of joint { Plate Rivets
Internal diameter Working pressure by Rules Thickness of crown No. and diameter
stays Inner radius of crown Working pressure by Rules
How connected to shell Size of doubling plate under dome Diameter of rivet holes and
of rivets in outer row in dome connection to shell

Type of Superheater Manufacturers of { Tubes Steel castings
Number of elements Material of tubes Internal diameter and thickness of tubes
Material of headers Tensile strength Thickness Can the superheater be shut off
the boiler be worked separately. Is a safety valve fitted to every part of the superheater which can be shut off from the boiler
Area of each safety valve Are the safety valves fitted with easing gear Working pressure
Rules Pressure to which the safety valves are adjusted Hydraulic test press
tubes and after assembly in place Are drain cocks or valves
to free the superheater from water where necessary
Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with

The foregoing is a correct description,
WILLIAM DENNY & BROTHERS, LTD.
W.M. Wilson. Director

Dates of Survey { During progress of work in shops - - See Accompanying
while building { During erection on board vessel - - - - - machy Report
Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
Total No. of visits 51

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey in accordance with the approved plans, and the Society's Rules and requirements, the materials and workmanship are good, it has been securely fitted on board, and the safety valves adjusted under steam.

Survey Fee ... £ 7 : 12 : 0 When applied for, 19.4.1929
Travelling Expenses (if any) £ 08-05 When received, 25.4.1929

Committee's Minute GLASGOW 23 APR 1929

Assigned See Accompanying machy Report

Jas Cairns,
Engineer Surveyor to Lloyd's Register of Shipping



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